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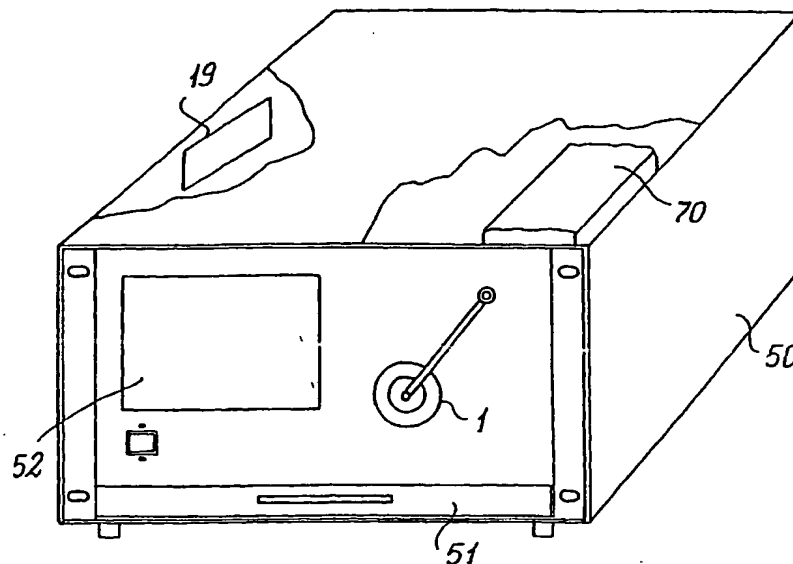
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(54) Title: ANALYZER FOR AUTOMATIC RAPID ANALYSIS OF THE ACETALDEHYDE CONTENT OF PET PRODUCTS, PARTICULARLY PREFORMS, AND ITS OPERATIVE PROCESS



(57) Abstract: This analyzer for extracting acetaldehyde and automatically determining its content, particularly in PET preform samples, comprises in combination: a) a desorption cell (1) into which said sample is inserted; b) an analysis chamber with a separation column (16) optimized for acetaldehyde separation; c) a complex of valves for manipulating the fluids within the system; d) a detection system; e) data processing and control means; f) a temperature-controlled casing housing the aforesaid components.

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*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP 02/08698

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G01N30/06

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, SCISEARCH

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>KHEMANI K C: "A novel approach for studying the thermal degradation, and for estimating the rate of acetaldehyde generation by the chain scission mechanism in ethylene glycol based polyesters and copolyesters"</p> <p>POLYMER DEGRADATION AND STABILITY, BARKING, GB, vol. 67, no. 1, January 2000 (2000-01), pages 91-99, XP004294838 ISSN: 0141-3910 page 92</p> <p style="text-align: center;">--- -/-</p>	1,6

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	LINSSEN J ET AL.: "static headspace-gas chromatography of acetaldehyde in aqueous food s and polythene terephthalate" ZEITSCHRIFT FÜR LEBENSMITTELUNTERSUCHUNG UND FORSCHUNG, vol. 201, no. 3, 1995, pages 253-255, XP008022291 ISSN 0044-3026 abstract	1,6
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			US 2003032737 A1	13-02-2003

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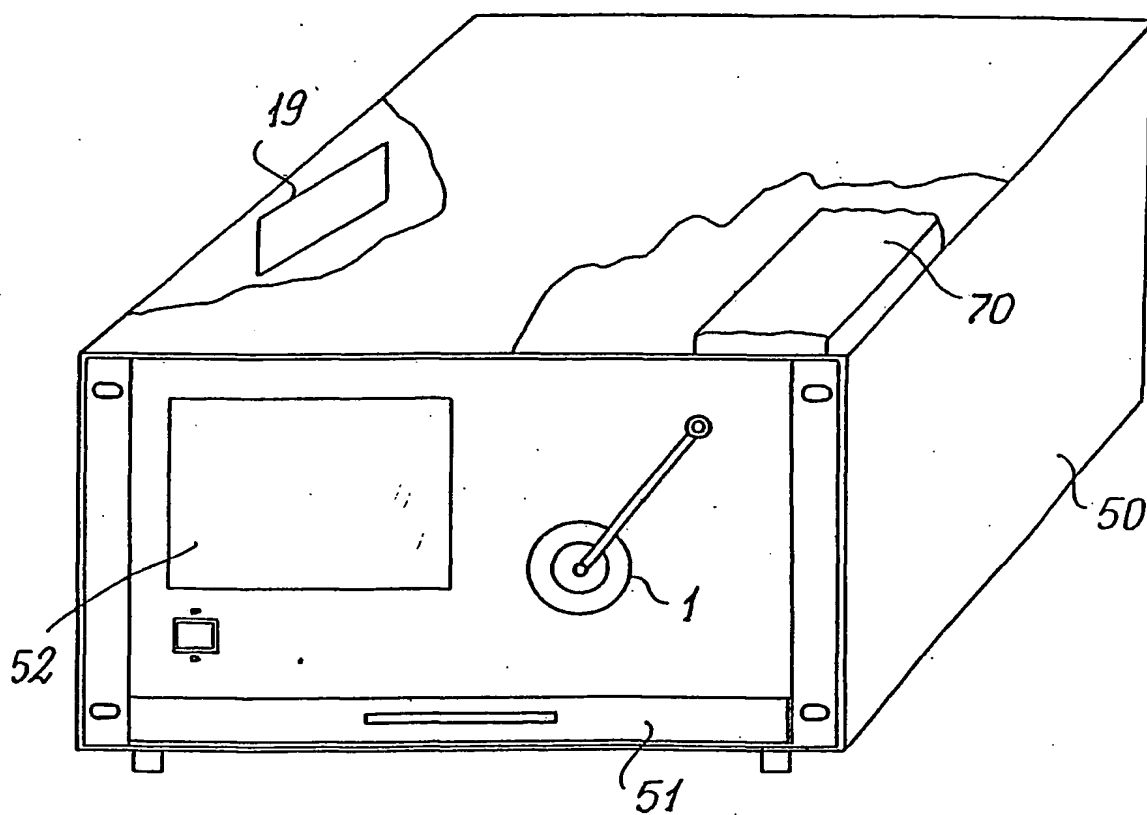


FIG. 1

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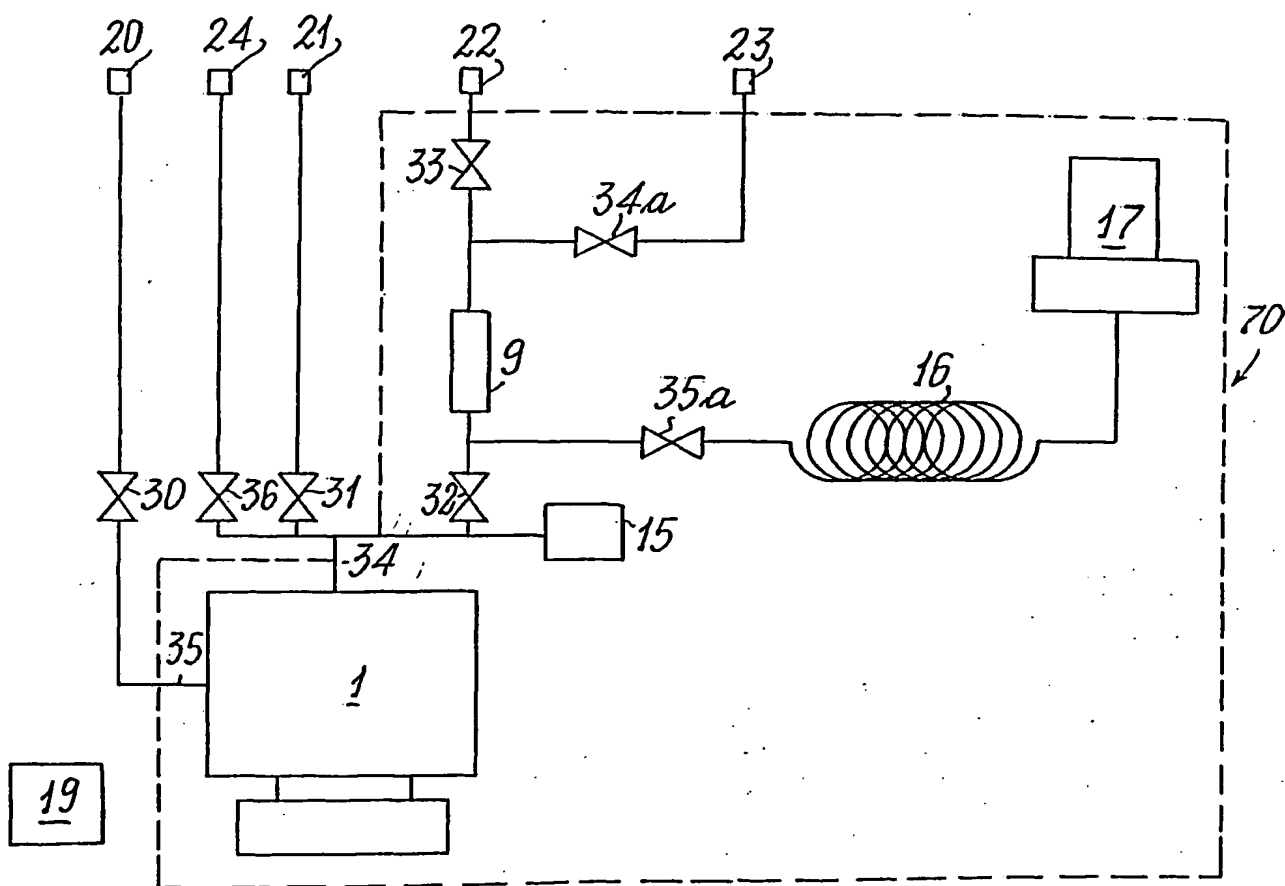


FIG. 2

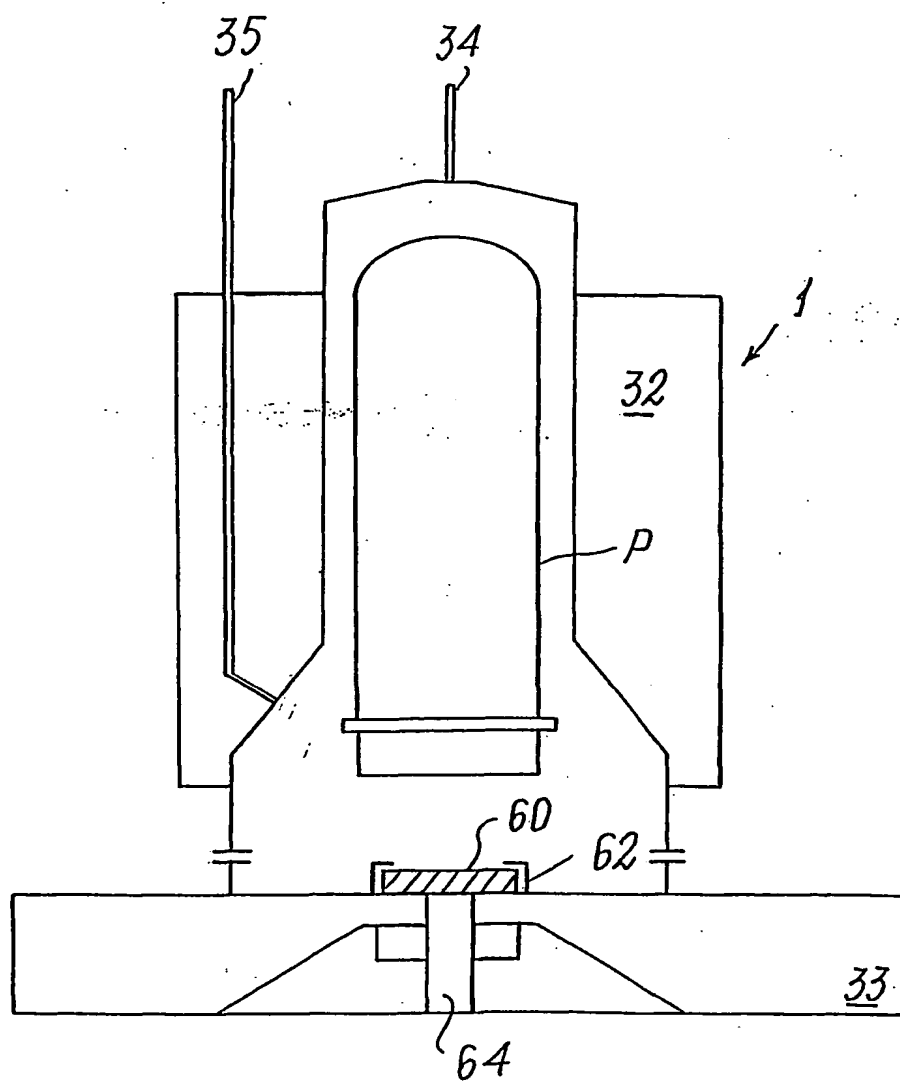


FIG. 3